

## CLAIMS

### What is claimed is:

1. An interactive video data generating system, operable to perform link relation on a video data selected by the user so as to enable interactive broadcasting, the system  
5 comprising:
  - a file document database, storing video data files used as link relation and corresponding relation data documents;
  - a selection input module, generating an event-triggering signal according to a selection input manipulation from the user to perform selection input manipulation on video data files  
10 and display page frames of a video data selection;
  - a link display module, providing the user with an interface for displaying tables of the video data files, wherein the link display module receives the event-triggering signal to prompt a video data selection item and broadcasts the display page frames and the corresponding relation data documents;
  - 15 a block defining module, performing a block locating process according to a user's selection input on a display page frame of a video data selection, and creating a link record in a corresponding relation data document of the video data selection; and
  - a relation generating module, wherein the relation generating module according to a block location information performs a tracking and defining process of similar block  
20 locations in following page frames of the video data selection, and adding definition results in corresponding relation data documents.
2. The system of claim 1, wherein the event-triggering signal is created at least by means of a sensitive display device or a pointing positioning device.
3. The system of claim 1, wherein the link display module uses a hierarchal menu to

display the tables of the video data files and the link records of the relation data documents.

4. The system of claim 1, further comprising an interactive video-broadcasting interface, wherein the interactive video-broadcasting interface at least comprises a user manipulating area, a video data relation displaying area, and a video-broadcasting area.

5. An interactive video data generating method, implemented to perform link relation on a video data selected by the user so as to enable interactive broadcasting, the method comprising:

analyzing a position information of display page frame from a selected video data;

performing a block locating process in the display page frame;

10 creating a link record of the display page frame, and saving it;

performing a tracking and defining process on following page frames of the video data selection; and

creating a relation data document of the video data selection.

6. The method of claim 5, wherein the position information includes coordinate data  
15 obtained from an event-triggering signal created by the manipulation of a sensitive display device or a pointing positioning device.

7. The method of claim 5, wherein performing a block locating process in the display page frame further comprises:

determining optical flow properties of a block location according to the position  
20 information of the display page frame;

generating a block boundary according to the optical flow properties;

performing a block feature extraction; and

performing a clustering process, and creating the block location.

8. The method of claim 5, wherein a link record at least includes page frame data, block data, a link data item, as well as a plurality of corresponding modules of the block data and the link data; wherein the page frame data is either a page frame number or a page frame range, and the link data is either a file or a section.

9. The method of claim 5, wherein performing a tracking and defining process on following page frames of the video data selection further comprising:

reading the block location data;

tracking the block location in the following page frames;

10 finding the block data and resolving the block location data; and

defining the block location according to the previous link record.

10. The method of claim 5, further comprising an interactive video-broadcasting interface having at least a user manipulating area, a video data relation displaying area, and a video-broadcasting area.

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